University Hospital Carl Gustav Carus

Clinic and Polyclinic for Visceral, Thoracic and Vascular Surgery

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Dear Colleague

New information and communication technologies (ICT), such as smartphones, apps and cloud services, are changing our private and professional everyday life forever. ICT applications, such as health apps on the smartphone, are also being used more and more frequently in the healthcare sector.

At the same time, there are many ambiguities related to the use of these technologies and applications, in particular regarding the reliability of information, security and privacy aspects.

The purpose of this survey is to get an overview of the actual use by physicians, the existing knowledge about these technologies and the evaluation of possible practical applications.

Answering the questions should not take more than 5-10 minutes. We would like to thank you very much for your assistance by filling in the anonymous questionnaire.

Your Ulrich Bork

If you have any further questions about the project, I am available for you questions:

PD Dr. Ulrich Bork University Hospital Dresden

Data protection notice:

This survey is anonymous. This means that at no time will your personal data, such as name, date of birth, etc. be revealed. The survey is multi-centered and the evaluation is carried out for all locations together, i.e. it is not possible to draw conclusions about individual persons even by assigning the personal data. Data collected in the course of this study will be recorded and further evaluated anonymously.

Personal details								
Your age (in years) and sex:								
	< 30		30 - 45			male		
	45 - 60		> 60			female		
length of professional activity (in years):								
	< 5		5 - 15					
	15 – 25		> 25			_		
Highest	academic degree:		DLD					
	State Examination		PhD					
Speciali	Dr. (M.D.) ist board certification:		professor					
	yes		no					
	,							
	ns about mobile phone (in			phone) and	smartphone:			
Do you	use your own private mob	oile phone						
Do wer	yes	nhono wit	no	- wle O		_		
Do you usually carry your mobile phone with you at work?								
	yes use an official mobile pho	ne (provid	no led by your	employer\2				
	yes		no	cilipioyei):				
How often do you also use your private mobile phone for business purposes (e.g. call service, apps)?								
	never \square	monthly		weekly	☐ daily	, ,,		
Is your mobile phone a smartphone?								
	yes	□ n	0		I don't know			
What op	perating system does you	rsmartpho	one use?					
	Apple (iOS)	Android	<u> </u>	Other [I do not know /	not applicable		
Do you	have/use a fitness wristba	and or sim	ilar "connec	cted device":				
	No							
	Fitness bracelet							
	other connected device (e	.g. Smart V	Vatch)					
What do you use your mobile phone / smartphone for (multiple answers possible):								
	Phone calls, SMS							
	Messenger (e.g. WhatsApp)							
	Social media (e.g. Facebook)							
	web browsing							
	Route planner / navigation	ı (e.g. Goo	gle Maps)					
	Online Banking / Finances							
	Medical tips / Health apps							
	Games							
	Other:							

/ V	Questions about the use of apps (if no use please tick "not applicable") Which of the points are important to you for <u>privately</u> used apps?								
Not important important Very Not									
			Not important	important	important	applicable			
	Desi	gn and usability							
	Time	e saving through use							
	Priva	acy / Security							
	Frien	nds / families use the same app							
	Imag	ge of the manufacturer / supplier							
	Qual	lity and topicality of the contents							
	Fun f	factor							
Which of the points are important to you for apps used for <u>business purposes</u> ?									
			Not important	important	important	applicable			
	Desi	gn and usability							
	Time	e saving through use							
Privacy / Security									
	Frien	nds / families use the same app							
Image of the manufacturer / supplier									
Quality and topicality of the contents									
	Fun f	factor							
Do you use medical apps in the context of your everyday work?									
	_		no	ay work?] I doi	n't know			
How]	yes \square	no			n't know			
How]		no		ients?	n't know	Bad idea		
	do y	yes ou rate the following medical a	no apps / applicati		ients?		Bad idea		
	do y	yes rou rate the following medical a	no apps / applicati doctor on call)	ons for pat	Good ide		Bad idea		
	1. E	yes rou rate the following medical a Emergency App (e.g. by a panel Online appointment allocation / a	no apps / applicati doctor on call)	ons for pat	Good ide		Bad idea		
	1. E 2. (3. (4)	yes rou rate the following medical at Emergency App (e.g. by a panel Online appointment allocation / a Coaching / training on diseases	no apps / applicati doctor on call) ppointment coor	ons for pat	Good ide		Bad idea		
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	1. E 2. (3. (4. \ 5. A 6. M	yes Tou rate the following medical and the following medical and the following medical and the following medical and following appointment allocation / a Coaching / training on diseases Video consultation / digital health following following medication app (e.g. postoperative following medication app (e.g. insulin reginal following medical following m	no apps / applicati doctor on call) ppointment coor assistant or for malignan	ons for pate	Good ide		Bad idea		
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How	1. E 2. (3. (4. \ 5. A 6. M	Emergency App (e.g. by a panel Online appointment allocation / a Coaching / training on diseases Video consultation / digital health Aftercare app (e.g. postoperative Medication app (e.g. insulin reginou rate the following medical a Assistance Diagnostics / different	no apps / application doctor on call) ppointment coor assistant or for malignance nen) pps / application G	ons for pate	Good ide	possible	Bad idea		
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How	1. E 2. C 3. C 4. \ 5. \(\text{A} \) 6. \(\text{M} \) 2. C 3. E 4. E	yes Tou rate the following medical and a second properties of the following medical a	no apps / application doctor on call) ppointment coor assistant or for malignant nen) pps / application G tial diagnosis	ons for pate	Good ide	possible	Bad idea		

General questions on information and communication technology (ICT)							
Do you think it is basically justifiable to use normal messenger apps (e.g. WhatsApp) for professional							
communi	cation?				_		
	yes		no			I don't know	
Are you familiar with secure messenger apps (e.g. Siilo, Careflow Connect, MedCrowd) for							
professio	nal communication?	_					
	Yes		no				
Do you think cloud computing based technologies for professional communication / data exchange make sense?							
	Yes		no			I don't know	
Do you consider professional communication in the health sector via normal email to be sufficiently secure and reliable?							
	Yes		no			I don't know	
Would yo	u say that you are sufficie	ntly familiar w	ith the techr	nical side of apps	s and clo	oud computing	
to assess	their use in everyday clin	ical practice?					
	Yes		No			I don't know	
Would you say that you are sufficiently familiar with the <u>legal aspects and data protection</u> requirements of apps and cloud computing to assess their use in everyday clinical practice?							
	Yes		no			I don't know	
Do you use telemedical applications (e.g. external diagnostic reports) in your professional activities?							
	Yes		no			I don't know	
Have you already received queries from patients about health advice or comparable applications in the course of your professional activities?							
	Yes		No			I don't know	
If a health app for patients interferes with diagnostics and therapy (e.g. contraception app, insulin scheme app), do you think it should be approved as a medical device?							
	Yes		No			I don't know	
In your opinion, what percentage of the apps that can currently be downloaded from the popular App Stores meet at least adequate basic data protection standards for secure communication and data storage?							
	< 30 %		30-60%			>60%	
Do you consider mandatory certification by an independent third party for health care applications / medical ICT applications to be necessary? A) With regard to security and data protection							
<u>//, //////////////////////////////////</u>	Yes	<u> </u>	No			I don't know	
B) In term	s of medical efficacy/qual	ity of content			_		
	Yes		No			I don't know	
Your comments (free text):							